



INFORMATION DISCLOSURE STATEMENT

Applicants : Kim, et al.
App. No. : 10/618,447
Filed : July 10, 2003
For : COLLAGEN-BASED BIOMATERIAL
FOR TISSUE REPAIR
Examiner : UNKNOWN
Group Art Unit : 3738

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:


Enclosed is form PTO-1449 listing 23 references that are also enclosed.

This Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required in accordance with 37 C.F.R. § 1.97(b)(3). If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 11/24/03

By: 

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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
LEELE82.001C1APPLICATION NO.
10/618,447INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(USE SEVERAL SHEETS IF NECESSARY)

APPLICANT
Kim, et al.FILING DATE
July 10, 2003GROUP
3738

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	1.	4,713,448	12/15/87	Balazs, et al.			
	2.	4,851,521	07/25/89	della Valle, et al.			
	3.	4,801,475	01/31/89	Halpern et al.			

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
	4.	Sy Griffey et al., Particulate Dermal Matrix as in Injectable Soft Tissue Replacement Material, J. Biomed. Mater. Res. (Appl. Biomater.), 58:10-15 (2001) (online November, 21, 2000)
	5.	Ari Helenius and Kai Simons, Solubilization of Membranes by Detergents, Biochimica et Biophysica Acta, 415:29-79 (1975)
	6.	Jeffrey S. Cartmell and Michael G. Dunn, Effect of Chemical Treatments on Tendon Cellularity and Mechanical Properties, J. Biomed. Mater. Res., 49:134-140(2000)
	7.	Roger Tu et al., Fixation of Bioprosthetic Tissues with Monofunctional and Multifunctional Polyepoxy Compounds, J. Biomed. Mater. Res., 28:981-992 (1994)
	8.	J. Michael Lee et al., Effect of Molecular Structure of Poly (glycidyl ether) Reagents on Crosslinking and Mechanical Properties of Bovine Pericardial Xenograft Materials, J. Biomed. Mater. Res., 28:981-992 (1994)
	9.	R. Berruet et al., Mechanical Properties and Biocomparability of Two Polyepoxy Matrices: DGEBA-DDM and DGEBA-IPD, Biomaterials, 8:162-171 (1987)
	10.	Christine E. Schmidt and Jennie M. Baier, Acellular Vascular Tissues: Natural Biomaterials for Tissue Repair and Tissue Engineering, Biomaterials, 21:2215-2231 (2000)
	11.	A. Jayakrishnan and S.R. Jameela, Glutaraldehyde as a Fixative in Bioprostheses and Drug Delivery Matrices, Biomaterials, 17 (5):471-484 (1996)
	12.	Christopher A. Pereira et al., Effect of Alternative Crosslinking Methods on the Low Strain Rate Viscoelastic Properties of Bovine Pericardial Bioprosthetic Material, J. Biomed. Mater. Res., 24:345-361 (1990)
	13.	R. Tu et al., Kinetic Study of Collagen Fixation with Polyepoxy Fixatives, J. Biomed. Mater. Res., 27:3-9 (1993)
	14.	Shih-Hwa Shen et al., Characterization of a Polyepoxy Compound Fixed Porcine Heart Valve Bioprosthesis, J. Biomed. Mater. Res., 5:159-162 (1994)
	15.	Hsing-Wen Sung and Jeng-Shiuan Shih, Biological Materials Fixed with an Epoxy Compound: Comparison of the Effects with or without Ionically Bound Heparin, J. Biomed. Mater. Res., 6:185-190 (1995)
	16.	Toshia Fujisato et al., Cross-linking of Amniotic Membranes, J. Biomater. Sci. Polymer End., 10 (11): 1171-1181 (1999)
	17.	R. Tu et al., A Preliminary Study of the Fixation Mechanism of Collagen Reaction with a Polyepoxy Fixative, Biomaterials, 16 (7):537-544 (1993)
	18.	E. Wang et al., Evaluation of Collagen Modification and Surface Properties of a Bovine Artery via Polyepoxy Compound Fixation, Biomaterials, 16(7):530-536 (1993)
	19.	Jeffrey M. Lohre et al., Evaluation of Two Epoxy Ether Compounds for Biocompatible Potential, Artif. Organs, 16 (6): 630-633 (1992)

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OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

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| 20. | D. Quteish et al., Development and testing of a Human Collagen Graft Material, J. Biomed. Mater. Res., 24:749-760 (1990) |
| 21. | Hwal Suh and Jong-Eun Lee, Behavior of Fibroblasts on a Porous Hyaluronic Acid Incorporated Collagen Matrix, Yonsei Medical Journal, 43 (2):193-202 (2002) |
| 22. | Mette Meinert et al., Proteoglycans and Hyaluronan in Human Fetal Membranes, Am. J. Obstet. Gynecol., 184-679-685(2001) |
| 23. | Davide Campoccia et al., Semisynthetic Resorbable Materials from Hyaluronan Esterification, Biomaterials, 19: 2101-2127 (1998) |

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